

The Home

JENNIE LESTER HILL, Editor

LIGHTING and LAMPS.

Several things are to be observed in considering artificial light, the most important being to avoid undue vitiation and heating of the air, and the obtaining of a strong and steady light. The electric light is the only light that is not a great tax on the ventilation of a room, for all burning uses up oxygen and produces carbonic acid gas. It is estimated that one kerosine lamp uses up as much air as four people.

In selecting a burner one should be bought which will make combustion as perfect as possible, as perfection of combustion depends largely on sufficient access of air to the wick.

To obtain perfect combustion I would advise the use of a round wick, with an air space both inside and outside. This can be found in the Argand burner or student lamp. In a good burner the air enters freely at the base, so should never be allowed to be clogged.

The nearer the greater amount of light is approached the more perfect is the combustion, and no burner should ever be turned very low as the products of incomplete combustion vitiate the air.

It is best to fill a lamp daily on account of the light given being less for equal volumes of oil the higher the flame is from the oil, and there is more danger of explosion by having a large air space over the oil.

Kerosine is obtained by distilling crude petroleum, which consists of a variety of inflammable gases and some volatile liquids.

Gasoline is one of the more volatile, giving a brilliant light, but of less commercial value, so that the refiner in considering his own interests allows as much as possible of these to remain in the kerosine. Inflammable gas is given off by some of the cheaper kerosine when heated to 90 degrees, and where a lamp shade is throwing the heat downward, or a lamp is brought near the stove, it is easy to obtain a heat of 90 or 100 degrees. It is safer to use oil which will not give off inflammable gases at a low temperature.

When lighting, turn the wick up slowly so the chimney will heat gradually, and when extinguishing the flame, never blow down strongly, but turn a little lower, and blow across the top.

Never fill the lamp full to the top but leave about one-fourth of an inch space.

Trim the wick square and even across. It should be long enough to touch the bottom of the lamp.

The lamp chimney looks the best if washed in hot suds; and when the lamp wick becomes dirty it should also be washed in hot suds, and the burner when clogged should be boiled in soda and water. It is advisable to keep all material for cleaning lamps in a box by themselves.—MARIE BANCROFT, Mrs. Hill's class in Domestic Economics.

The School

JOHN WIRT DINSMORE, Editor

Keep up with the Times.

Years ago the district school teacher was usually the most enlightened person in his community. He was authority not only on all educational topics but upon matters in general and was looked upon with the respect that a man of learning ought always to inspire.

Such a condition does not now exist to any great extent. The reason for it may be that other vocations have advanced in pay while teaching has not. The great majority of teachers are young and inexperienced, consequently their opinions do not bear great weight and their education and scope of view is necessarily limited.

Another difficulty is that the average teacher is shut in, far away from centers of learning without opportunities of self improvement.

Traveling men, people in towns and the more advanced class of farmers get their daily or weekly papers, read the magazines, meet other enlightened people and so keep abreast with the times.

Teachers often have none of these advantages, no books, papers or magazines, and when thrown with people who read are put to shame.

Their entire ambition has been to secure a county certificate. They are sufficiently learned in the "common branches" to pass the required percent and therefore are equipped for teaching. No test is made from the standpoint of their fitness in general knowledge and culture.

There are ways by which teachers could improve themselves as occasionally we see some are doing. Although the pay is small every teacher should subscribe for two or three magazines, a good general weekly newspaper and purchase a few books, in addition to whatever school journals he may be taking. An enterprising young man or woman could form a reading club of from three to six. Each one would subscribe for some periodical, and when read exchange with the others. Some of the very best literature is so cheap that an abundance of it is easily within reach of every teacher. If any one does not know where or how to get it he should make it a point to find out and obtain a supply as soon as possible. We would be glad to answer questions pertaining to this or other educational matters through the columns of THE CITIZEN.

J. W. DINSMORE.

The Farm

SILAS CHEEVER MASON, Editor

Commercial Fertilizers.

BY TUTOR C. D. LEWIS.

It is not necessary to plow the entire crop down, as personal experience has shown me that land may be improved rapidly while paying crops of peas are taken from it regularly. On the other hand, if this nitrogen had been bought it would have more than taken the profit of the crop.

But often it is expedient to buy nitrogen, and then it may be had in many forms. One rule, however, is to be observed. Apply it directly to the crop after growth has commenced, or as with corn just before. It is often found to be profitable to make two or even three applications of it during growth.

Nitrate of soda is much used and is probably best for corn and many other rapid growing succulent crops. For cotton, however, the nitrogen from the cottonseed meal seems to give the best results. The bone meals give up their nitrogen more slowly and for that reason should be used on wheat and such slowly maturing crops.

The effect of nitrogen is one of the most striking experiments that can be made in the School Garden. It produces a heavy dark green growth and the result can be seen very soon after an application.

Soil may easily be made too rich in nitrogen, however, a fact that can be detected by an over growth of stalk and foliage. A few years of cropping in some nitrogen consumer, such as corn, will remedy that.

As has been said nitrogen escapes easily from the soil. To prevent this observe the following: (1) Never let land lay exposed to the action of the weather; that is, always have some cover crop growing to use up the nitrates that form from decaying vegetation. (2) Apply potash to acid soil, as in such soil nitrogen compounds form and escape, and potash prevents this.

It is much more difficult to tell when soil needs phosphoric acid. It may be indicated, however, by poor development of grain and slow maturing of crops. Experiments may be made by using acid phosphate and other fertilizers alone, and in various combinations, which will show quite conclusively just what is needed. This may be done by teacher and pupils in the school garden, in that way making it of practical value to the community, and so increasing its value in the esteem of the whole community.

(Continued.)

EDUCATIONAL CALENDAR.

Please send notices for this Calendar.

Oct. 26—Bell Co. Mag. Dist. 2, Association at Straight Creek school house.

Oct. 30-31—Madison County and 8th Congressional Association at Richmond.

How to Handle Horse Radish.

To have horse radish at its best buy the root, but do not grate it, as it is much easier and saves many tears if you wash and scrape it. Next cut into dice and put it through the finest cylinder of your meat chopper and then into air tight jars so as to retain the full strength until wanted for use.

For Senator.

THE CITIZEN was glad to note in last week's issue that Maj. Curtis F. Burnam, of Richmond, is once more the candidate for State Senator for the district comprising the counties of Estill, Lee, Powell, Madison. Judge Burnam is one of the men of whom Kentucky has always had reason to be proud. His great talents, high scholarly attainments and long experience, combined with that absolute integrity which produces confidence in all, makes him one of the pillars of the Commonwealth. Every man knows that his interests are safe when the State Legislature is influenced by such men as Judge Burnam.

WEAVER WANTED

A good weaver understanding the weaving of coverlids will be given work at the Weaving House on Jackson Street. H. W. GRAHAM, Berea College Fireside Industries, Berea, Ky.

Cause of Lockjaw.

Lockjaw, or tetanus, is caused by a bacillus or germ which exists plentifully in street dirt. It is inactive so long as exposed to the air, but carried beneath the skin as in the wounds caused by percussion caps or by rusty nails, and when the air is excluded the germ is roused to activity and produces the most virulent poison known. These germs may be destroyed and all danger of lockjaw avoided by applying Chamberlain's Pain Balm freely as soon as the injury is received. Pain Balm is an antiseptic and causes cuts, bruises and like injuries to heal without maturation and in one third the time required by the usual treatment. It is for sale by S. E. Welch, Jr.

Loom and Flax Wheel Wanted.

Mrs. H. W. Graham, Berea College, Berea, Ky. would like to communicate with anyone having a loom or good flax wheel for sale.

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To cure Dyspepsia or indigestion it is no longer necessary to live on milk and toast. Starvation produces such weakness that the whole system becomes an easy prey to the stomach. Kodol Dyspepsia Cure enables the stomach and digestive organs to digest and assimilate all of the wholesome food that one cares to eat, and is a never failing cure for indigestion, Dyspepsia and all stomach troubles. Kodol digests what you eat—makes the stomach sweet. Sold at East End Drug Co.

Call on the town marshal and pay your town taxes for 1903. W. J. Tatum, Town Marshal.

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is the one that will cleanse the system, set the liver to action, remove the bile, clear the complexion, cure headache and leave a good taste in the mouth. The famous little pills for doing such work effectually and pleasantly are DeWitt's Little Early Risers. Bob Moore, of Lafayette, Ind., says: "All other pills I have used gripe and sicken, while DeWitt's Little Early Risers are simply perfect." Sold by East End Drug Co.

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No one who is acquainted with its good qualities can be surprised at the great popularity of Chamberlain's Cough Remedy. It not only cures colds and grip effectually and permanently, but prevents these diseases from resulting in pneumonia. It is also a certain cure for croup. Whooping cough is not dangerous when this remedy is given. It contains no opium or other harmful substance and may be given as confidently to a baby as to an adult. It is also pleasant to take. When all of these facts are taken into consideration it is not surprising that people in foreign lands, as well as at home, esteem this remedy very highly and very few are willing to take any other after having once used it. For sale by S. E. Welch, Jr.



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JOE BULLEN, Rockford, Ky.

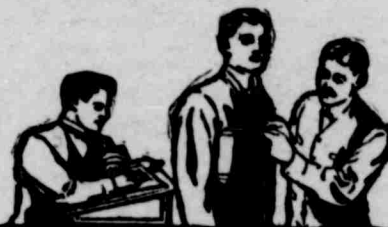
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